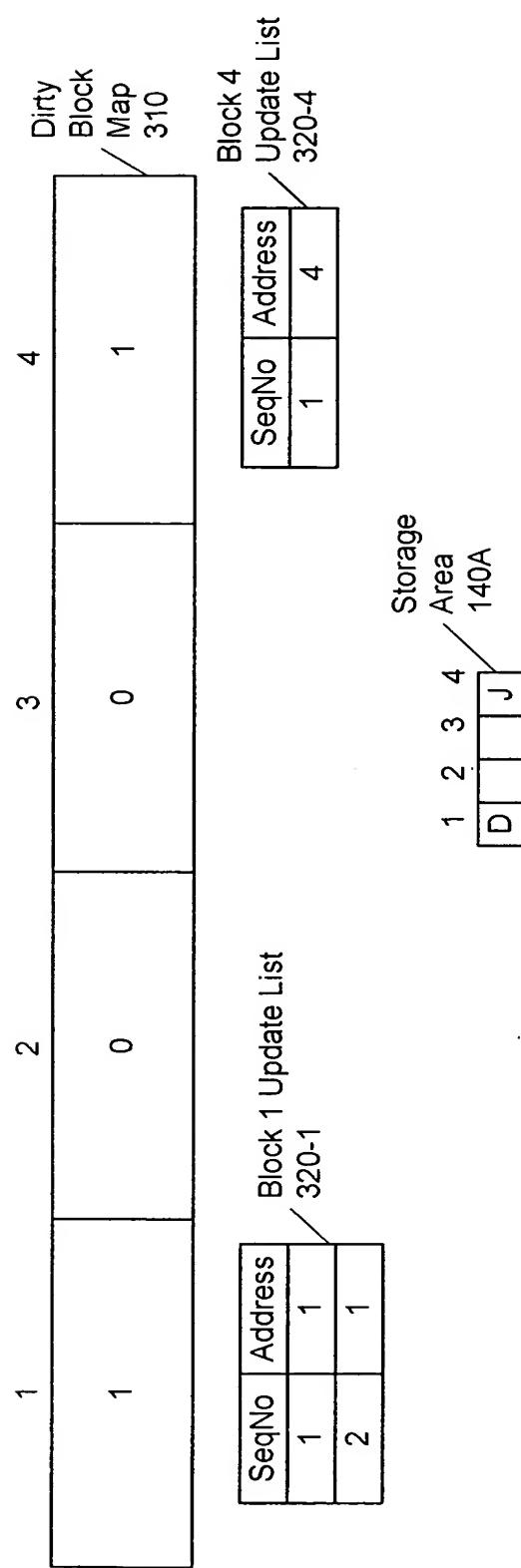
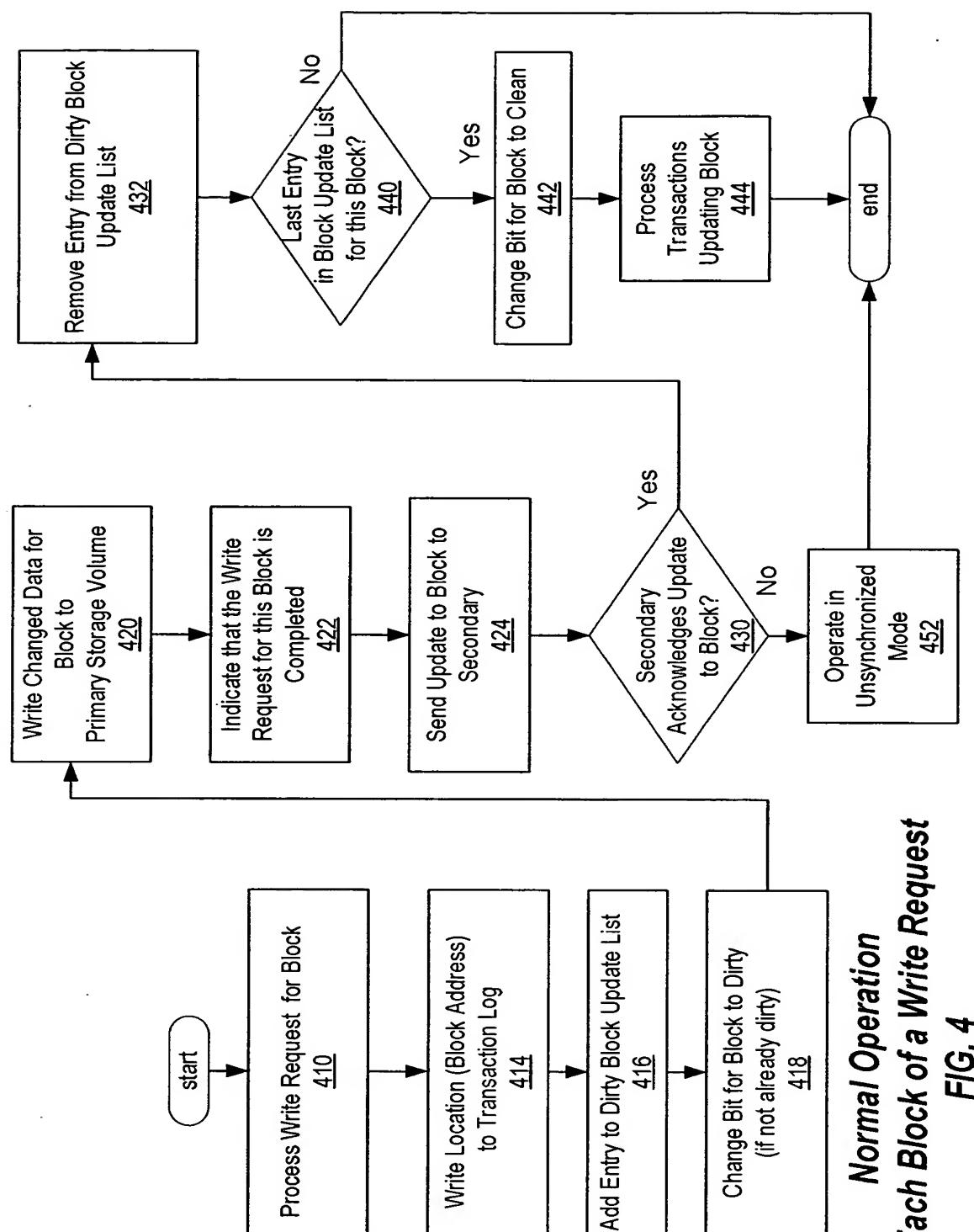


Circular File System Transaction Log

FIG. 2

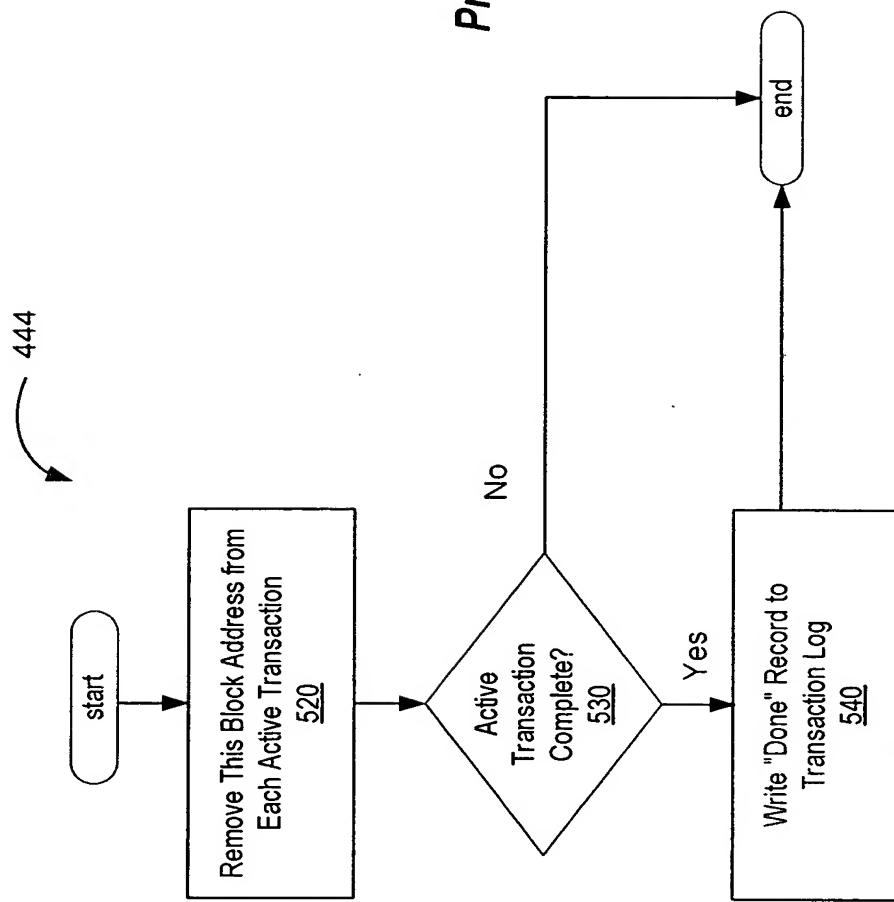


Dirty Block Structures
FIG. 3



**Normal Operation
for Each Block of a Write Request**
FIG. 4

**Process Transactions
Updating Block**
FIG. 5



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